

24/1/49

Records administrative decisions for the scheme of the introduction of trolley buses in Bangalore city and Civil Station.

- To The Chief Electrical Engineer
- " General Secretary to Government
- " Commissioner of Economic Development and Planning
- " Secretary, Traffic Board.
- " Comptroller to Govt (H.O. 7.8)
- " Auditor, Electrical Department.

G.O. No E.D.S. 2167-72 Dated 20/12 December 1948.

Introduction of Electric Trolley Buses in Bangalore city and Civil Station, Bangalore.

SUBJECT

Part B for December 1948.

Serial Nos. Seventeen only

GENERAL AND REVENUE SECRETARIAT

Later References.  
Cled 35-48 (28, 50)

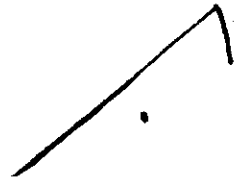
Previous References.  
Cled 136-46 (2, 4.)

App. F. IX-4

1948-49

(Cled)

File No. 136-46  
Serial Nos. 5, 9, 11, 12, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29.



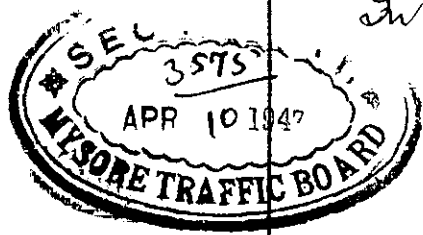
1902  
slit

1

G. R. S. III-3]

ROUTINE NOTES

[To be used only for notes, requisitions, etc., not intended for permanent record.]



Introduction of Trolley  
Buses in Bangalore  
City & C.M. Station

The main file on the  
subject is in the Traffic  
Board office. It appeared  
that office will be  
requested to put up all  
the papers on this subject  
for taking further action  
in the matter.

1) RRC  
8/4/47  
2) On  
7/4  
3) Yes. R.R. 9/4/47  
4) RRC  
10.4.47  
5) Sub.  
The main file bearing D no-2393  
was sub for orders to the chair-  
man, Traffic Board on 8/2/47.

10/4

N.B.—Should routine notes be written on small slips,  
the notes must be copied or slips pasted on this form.

For transmission

WD 0873—GPB—25,000—20-11-45

Seal

13/4/47

6) d  
11/4/47

# 2. Introduction of Trolley Buses in Blor. city & L.C.M. Station!!

3575

NOT 1174 70142

1902 III  
Eclcl..

blor. city & L.C.M. Station!!

7) The file may be got as soon as possible and put up to dispose of the current reference from the C.E.

R.L.  
18/4/47

R.C.  
18.4.47

8) This file will, if approved, be sent to the Secretary, Traffic Board, for kindly sending the main file when it is received from the Chairman, Traffic Board.

9) Yrs. may be treated as llymk.

R.C.  
22.4.47

15/4/47

Secy

10) The main file may kindly be now transferred to the Elec. Sectt.

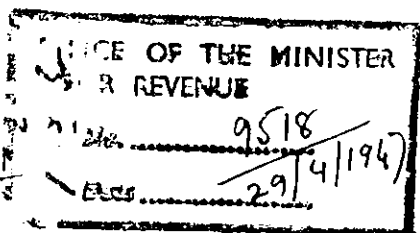
Secy. T.B.  
w/c

R.L.  
27.4.47  
R.C.  
28.4.47

11) Submitted for kind perusal and further instructions.

Chairman  
T.C. Bd.  
12) order with the Chairman  
28/4/47.

29/4/47



13) 15/4/47

R.L.  
T.S. 47

# Trolley Buses for Bangalore

3  
APP. F. III-2

General and Revenue  
Secretariat

File No. \_\_\_\_\_

of 194 .

Serial  
No.

14) In February 1946, a preliminary estimate was prepared by the C.E.E. for the introduction of electric trolley buses in Bangalore (City and C.M. Station areas). The estimate amounted to Rs 48,84,000 and provided for 30 electric buses, each with a seating capacity of 32 persons.

15) The C.E.E. now states that from the information available with the department at present, only a project estimate can be prepared, and not a detailed estimate.

16) This work like the electrification of the M. S. Ry. is a highly technical and specialized kind of work which is quite new to the department. Further, none of the officers of the department possess the requisite experience and knowledge to prepare detailed plans, estimates and specifications for the various materials required for the project.

17) It is, therefore, submitted for consideration that in my opinion it would be very desirable to obtain the technical advice of specialists, as ~~the~~ Govt. have decided to do in the case of the electrification of the Bangalore-Mysore section of the railway. The work of trolley buses being of an allied nature, the traction experts of Messrs. English Electric Co., who are to begin the surveys of the railway with a view to its electrification, may also be requested to undertake the engineering and economic surveys of the traffic in the

# Introduction of Trolley-Buses in Bangalore City & Cant and Military Station

File No. 136

of 1946-47

General and Revenue  
Secretariat

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No.

D. 1902  
Elect

Bangalore City and Cantonment areas, and  
to submit to Govt. their considered proposals, and  
plans with estimates and detailed specifications  
to enable tenders being called for.

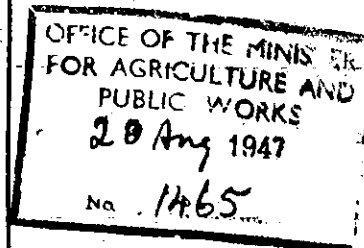
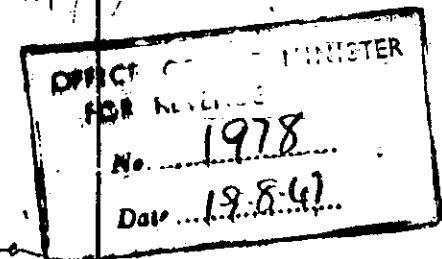
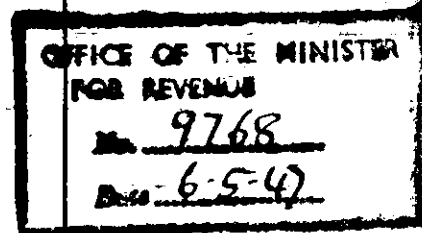
18) If this proposal is approved, the English Electric  
Co. may be requested to quote to us their terms  
for undertaking this work in addition to and  
after their completion of the surveys of the Bangalore-  
Mysore Section of the Railway.

Miss. Rev.  
Min. R.W.  
+  
Dewan.

19) By day will please  
specify to me.

R.R.  
6/5/47.  
R.R.  
6/5/47

h  
7/5



20) Now that the English Electric  
Co representatives are here in connection  
with the Railway Electrification scheme  
& are conducting the necessary surveys  
it may be advantageous to secure  
their advice in regard to the technical  
aspects of the trolley bus scheme & on  
the general layout of the scheme &  
on receipt of their suggestions & advice,  
the Chief Electrical Engineer may  
take further needed action in  
regard to the preparation of the  
detailed estimates & specifications  
for equipment. The Company will  
be asked as to what terms they would

# Introduction of Trolley Buses in Bangalore City & C.M. Station

App. F. III-2

General and Revenue  
Secretariat

1902

Encl.

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of 1946.

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Serial  
No.

Offer to ~~do~~ render the advice.

1465

21)

19/8/47

19/8/47

20/8/47

Dewan) 22)  
RL  
20/8/47

23) JH  
20/8/47

24) RL  
21/8/47

21.8.47

25) Issue letter as directed

RL  
22/8/47

Issued in

E. S. No. 614/Eled 136-46-9 dated 22nd  
August 1947 to the  
C. S. S.

Requests to take further  
needful action with regard  
to the preparation of detailed  
estimates and specifications for the  
necessary equipment on receipt  
of suggestions and advice  
from the English Electric  
Company.

26) Resubmitted <sup>after time</sup> for perusal and orders

27/8/47

Jeey)

3.8.47

25) This will be discussed first with English  
Electric Co's Engineers (Messrs. Robertson & Rudd)  
when they arrive here from Mysore next.

RL 27/8

b

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General and Revenue  
SecretariatSerial  
No.

E.D.S. in E.D.S. No. 799/Eled 136-46-11 dated 12<sup>th</sup> September 1947.

To,

II Messrs The English  
Electric Company,  
Queens House, Kingway,  
London W.C.2.

Enquires as to whether the  
Govt of Mysore can have the  
benefit of their advice  
in the matter of introducing the  
electric trolley buses and if so,  
requests to intimate their  
terms for enabling to  
issue an enquiry for  
tenders as in the case  
of the electrification of the  
Bangalore - Mysore Railway.

E.D.S. 800/Eled 136-46-11  
dated 12<sup>th</sup> Sept 1947.

Copy to the Trade  
Commissioners for Mysore  
in London.

E.D.S. 801/Eled 136-46-11  
dated 12<sup>th</sup> Sept 1947.

Copies to Mr A.S. Robbison,  
Representative, The English  
Electric Company, Camp Bangalore.

24/9

# Trolley Buses for Bangalore

Continuation Sheet.

File No.  
Current No.

689

of

Page.

7

Letter no. 6936 dated the 9th October 1947 from the English Electric Company Ltd. states that an offer for this work with their recommendations and specifications will be made.

28) Submitted for perusal.

29) rec  
25.10.1947

25/10 1/2

Secy

Dewan)

30)  
Rel.  
27.X.47  
rec  
28.10.47

31)

This proposal, along with the proposal to get omnibuses operated by diesel oil which seems to be very much cheaper and which the Govt of Madras have ordered, may be considered by the Minister for Railways & Road Transport in the first instance. I shall be glad to discuss this case with him.

Hll 31/10

32) This file may be brought up again 3/11/47. I have seen the D.O. & P. and have discussed the matter with the Dewan

Rel.  
3-11-47

Min., Rys.)

ICE OF THE MINIST.  
DR. Hane  
No. 108  
Date 14-11-1947

15/11

Rel.  
20/11

rec  
14.2.48

Letter No. 9069 dated the 18th February 1948 from the English Electric Co., Ltd.  
Requests for certain additional information.

33) Submitted for orders whether the C.E.E. may be consulted in the matter.

34) C.E.E. may be consulted and pending this an interim reply to the firm may be given.

REC  
27.2.48

Secy

35) / may be done

PMH/1/3/48

REC  
1.3.48

36) Two drafts are put up for approval.

38) Issue

37) REC  
2.3.48

Secy

Boc.  
3/3/48

REC  
3.3.48

Letter No EDS 2870/Elect. 136-46-17

Dated 5/3/48.

To

The C.E.E. to Govt

Bangalore.

forwards - a copy of letter no 9069 of 18.2.48 received from the English Electric Co. Ltd and requests to furnish the information as called for by the firm.

No EDS 2871/Elect. 136-46-18

of 5.3.48

To

The M/S English Electric Co Ltd  
Queens House, Kingsway  
London W.C.2.

Inform that the information required by the  
will be sent in due course.

Letter No. 9210 dated the 26th  
February 1948 from the English Electric  
Co., England.

Requests to send a copy of  
the regulations applicable to vehicles

39) If approved the CEE will be  
requested to furnish the information  
required. Off letter to the CEE as above

40) Done; M act. the firm.

Letter NO E 2996/Elect 136-46-20.

By 12.3.48

To

The C.E.E to Govt  
B' Lorr

Forwards a copy of the letter from the English  
Electric Co Ltd for favour of furnishing the particulars  
called for by the firm.

41) A draft letter to the firm is put  
up for approval.

13/3/48

42) Issue

13.3.48

By 18.3.48

NO E 3058/Elect 136-46-21

To

M/S The English Electric Co Ltd  
London

Inform that the information required by them  
will be sent in due course.

Letter No. 36201 dated the  
25th May 1948 from the Chief  
Electrical Engineer.

States that during his visit  
to England, he has explained  
the matter to the firm.

43) A draft reply to the firm  
is put up for approval as suggested  
by the bbb.

W-127  
9/5

44) Issue  
HPS  
15/5/48

EOS 3832/2 Eled 136-46-23 2/18/5/48.

to Messrs. The English Electric Co. Ltd.  
Queens House, London.

Directs hence forth to address Jamar Haylett  
for any further information on the subject  
required by them.

Sms B'  
29/5

Letter No T.C. 327/47-48 dated  
the 28th May 1948 from the S.G.  
of Police.

Furnishes information re  
routes. etc.

45) The bbb. has already furnished  
the information requested to the Company,  
while he was in United Kingdom.

46) HPS  
9/6/48

Secy Elee.)

1922026660299211100135

# Electric Trolley Buses for Bangalore

47)

The Company has called for information re. the Traffic Regulations <sup>para 38</sup> and it is stated that the information has been furnished by the C. E. E. direct to the Firm. The nature of this information and a copy of the letter if any may be obtained for the information of Govt.

18/6/48

18) A draft letter to the E.E.C. is put up for approval.

18/6/48

49) <sup>same</sup> <sub>rec</sub> 27.6.48

EDS 111/Elul 136-46-26 D/8-7-48.  
To C. E. E.

Requests to send a copy of the correspondence between the English Electric Co., Re: Electric Trolley Buses, to B. U. E.

Sms A/  
18/6/48

Letter dated the 31st July 1948 from the English Electric Company, London. States that the E.E.C. has discussed the matter with them while in England.

Letter No 1562 dated the 10/13th July 1948 from the Chief Electrical Engineer.

States that he had a general discussion with the Company regarding voltages, rupturing capacity, position of the feeders in Bangalore etc.

50) Submitted for perusal with reference to para 47 above  
51) The final proposals from the

18/6/48

General and Revenue  
Secretariat

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of 194

[App. F. III-2

Serial  
No.

Company to be Electrical  
Engineer may be awarded

to  
in the

52) The report of the Eng.

Exec. Co. may be awarded.

for  
24.7.48

See

53) For perusal

A may be done

Chief Minister)

for  
28/7/48

54) K. L. K. 29/7

for  
31.7.48

55) For perusal

Min. for Finance + Industries)

for  
3/9/48

56) The estimate for Rs 48,84,000/- submitted by the C.E.E. for the introduction of ~~Electric~~ <sup>Electric</sup> Trolley Buses in Bangalore may be administratively sanctioned.

57) On March, 1947 this subject was considered at a meeting of the Council and it was decided that the construction should be by Govt. while the question of management ~~should~~ be decided later on.

58) A detailed note on the subject is placed below

59) This constitutes a Council Case and

Min. for Law + Labour  
Chief Minister  
Dewan  
through Secy. Secretary

for  
13/9/48

Dom 14/9

OFFICE OF THE  
CHIEF MINISTER.  
No. 613.  
Date 29.7.48.

THE MINISTER  
INDUSTRIES.

1486  
3/9/48

GENERAL & REVENUE SECRET  
U.O. NO. FL 22 49  
16 SEP 1948  
GENERAL SECRETARY, BANGALORE

File No.

of 194

General and Revenue  
SecretariatSerial  
No.

2247/7

60) Financially the Scheme seems to be remunerative, should the anticipations be realised. I have therefore no objections to the proposal.

20/9/48

61) Bangalore has become a city of distances. An efficient, comfortable & quick form of transport is needed by the public. Diesel oil buses though costing less in initial outlay will entail (i) dependance, open market, on import of oil (ii) heavy annual repairs and renewing expenses. We have plenty of power available and electric trolley buses would be most suitable for our needs. This has to be expedited.

62) Council meeting.

K.A.  
2/10

63) A note is put up for approval.

5/10/48

El. Secretary

65)

12/10/48

64)

Dom 6/10

66) Typed copies are put up.

14/10

For circulation.

Chief Secretary  
with ComplimentsOffice of the Minister  
for Law & Labour.

No. 780

Date 22/9

Office of the Chief Minister

No. 1723

Date 23.9.48

DEWAN'S OFFICE

20 OCT 1948

No. 1606



*Introduction of Electric Trolley Buses  
in Bangalore city and Tent Station, Bangalore.* 14

General and Revenue  
Secretariat

File No.

of 194 .

[App. F. III-2

Serial  
No.

Council File No. 560.

**For Consideration  
at a Meeting of Council**

*KM*

20. 10. 48.

15-

Mem 14th 1878

For Consideration  
at a Meeting of Council

N O T E.

(Chief Secy)

Am

20. 10. 48

Subject:- Introduction of Electric Trolley Buses  
in Bangalore City and Civil Station,  
Bangalore.

1. The question of improving the facilities for the passenger traffic in the Bangalore City and Bangalore Civil Station is under consideration for sometime past.

The public of Bangalore City and Civil Station are not provided, at present, with proper transport facilities. Complaints of inadequate and inappropriate service are increasing every day. With the growing size of the City and Civil Station, it is imperative that a modern up-to date efficient transport system is provided. Taking the size of the City and its possible extension for the next 10 years, the only solution seems to be the introduction of trolley buses for the following reasons:-

2. The introduction of trolley buses all over the world is advocated on account of efficiency of service, less noise and avoidance of the inconvenience of laying<sup>a</sup> rail track through the thoroughfares of the City, and also inability of the tram-cars to approach the curbs to pick up passengers and let down passengers involving thereby withholding of traffic and not infrequently being a source of danger for the pedestrians across the roads to get into the trams. The petrol driven buses even though they have certain advantages are more expensive in their maintenance and above all depend entirely on the supply of petrol which is not available in India. The next recourse seems to be for the introduction of suburban railway which is

~~2.~~

is felt not appropriate for the size of Bangalore nor for the traffic likely to develop during the course of next 10 years.

3. From the data furnished by the Bangalore Transport Company during the months of April, May and June 1945, it would be seen that a total distance of 338,592 miles has been run by 45 buses for a period of three months, earning a revenue of Rs 2,48,259/-. The Chief Electrical Engineer states that these figures have been taken for calculating the anticipated revenue and working expenses allowing for appropriate increase both in revenue and working expenses proportionately to the increased mileage and better and larger size buses provided in the scheme.

4. The Chief Electrical Engineer has also drawn in consultation with the Government Architect a new route system which is shown in drawing No.T.B.3 enclosed herein. He has also examined the routes of the present buses in detail, and possible traffic is also taken into consideration. From the drawing it would be seen that the Chief Electrical Engineer has divided the City and Civil Station into 6 routes and they are so arranged that one bus goes up and down the route, the route extending from one terminus to the other and loops have been provided at the 2 ends of the route for the buses to go round and cover a wider area at the terminus and turn round for the return journey. He feels that these 6 routes would be ample for the present and with the experience gained after a year or two the number of routes may be proportionately increased to meet the increasing demands of the City. On the basis of this data, the Chief Electrical Engineer feels that a minimum number of 30 buses is

is necessary. The petrol buses, as now handled by the Bangalore Transport Company, cover a distance of about 80 to 100 miles per day. With the improved facilities made available by providing electric buses with better acceleration, smooth running and minimum attention compared with the petrol ~~buses~~ buses, it will be possible to run the minimum of 150 miles per day per bus during the working hours which can be gradually increased to 200 miles without much difficulty and strain on the equipment. The capital and working expenses can be proportionately reduced per mile if each bus runs larger number of miles; and it is quite possible being electrical equipment. The Chief Electrical Engineer proposes to place 30 buses in operation, 29 to be continuously running and one to be a spare bus at the sheds to replace any defective ones that are running in emergencies and meanwhile being attended to periodically by turns. These 29 buses at the rate of 150 miles per day will cover a distance of ~~4x~~350 miles per day and when they make 200 miles a day the total bus miles covered will be 5,800.

5. It is also stated that the drawing of the proposed routes was sent to one of the reputed manufacturers who are familiar with such undertakings and they are of the opinion that 12 rectifier sub-stations may be located as shown in the drawing.

6. The Chief Electrical Engineer further states that the Electrical Department can undertake to supply either A.C. or D.C. power whichever is desired by the organization to which the maintenance and operation of the trolley buses system is to be entrusted.

7. The cost of the buses along with other equipments like rectifier sub-stations, under-ground cables, ~~the~~ tracks etc., would involve an estimated cost of Rs 48,84,000. The annual revenue expected is about Rs 24.85 lakhs taking into consideration the average mileage of 200 miles per day per bus and Rs 18.70 lakhs for 150 miles per day per bus. The total working expenses is estimated to be Rs 8.89 lakhs and Rs 8.09 lakhs considering 200 miles daily and 150 miles daily respectively if A.C. power is supplied; and if it is D.C. supply the estimated cost is Rs 9.47 lakhs and Rs 8.41 lakhs for 200 miles and 150 miles respectively. The percentage return on the capital of Rs 48.84 lakhs if A.C. power is supplied is 33 per cent on the capital for 200 miles daily performance per bus, and the percentage return on capital of Rs 40.5 lakhs, if D.C. power is supplied, is 38 per cent for 200 miles daily performance per bus and 25 per cent for 150 miles daily performance per bus.

The scheme is reported to be financially a remunerative one and will also provide an up-to-date appropriate modern method of transport for the premier City of Bangalore in the Mysore State.

The English Electric Company have also been consulted with regard to the scheme. All particulars required by them have been furnished, and their report is awaited.

The scheme of introduction of electric trolley buses in Bangalore City and Civil Station was considered under the post-war schemes relating to the Electrical Department. In the decision arrived at in the Council, it is stated that the initial construction should be by Government and the question of management of the services may be considered and decided later on.

The Financial Secretary, Minister for Law and Labour and the Chief Minister, who is in-charge of the current duties of the Dewan have agreed to the proposal being sanctioned. The case has been ordered to be discussed at a meeting of the Council.

*H. Visweswarayya*  
17.10.48  
Secretary to Government,  
Electrical Department.

*Subject.*—

Introduction of Electric Trolley Buses in Bangalore City and Civil Station, Bangalore.

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1. The question of improving the facilities for passenger traffic in the Bangalore City and Civil Station has been under the consideration of Government for sometime past.

The public of Bangalore City and Civil Station are not being provided, at present, with adequate transport facilities. Complaints of inadequate and unsatisfactory services are increasing every day. With <sup>the</sup> growing size of the City and Civil Station, it is imperative that an up-to-date efficient transport system is provided. Taking the size of the City and its possible extension for the next ten years, the only solution seems to be the introduction of trolley buses for the following reasons:-

2. The introduction of trolley buses all over the world is advocated on account of efficiency of service, less noise and avoidance of the inconvenience of laying a rail track through the thoroughfares of the City, and also inability of the tram-cars to approach the curbs to pick up passengers and let down passengers involving thereby withholding of traffic and not infrequently being a source of danger for the pedestrians across the roads to get into the trams. The petrol driven buses even though they have certain advantages are more expensive in their maintenance and above all depend entirely on the supply of petrol which is not available in India. The next recourse seems to be for the introduction of suburban railway which is felt not appropriate for the size of Bangalore nor for the traffic likely to develop during the course of the next ten years, besides its disproportionately heavy cost particularly at the present times.

G 3. From the data furnished by the Bangalore Transport Company during the months of April, May and June 1945, it will be seen that a total distance of 338,592 miles has been run by 45 buses for a

period

~~2-~~

period of three months, earning a revenue of Rs.2,48,259/-. The Chief Electrical Engineer states that these figures have been taken for calculating the anticipated revenue and working expenses allowing for appropriate increase both in revenue and working expenses proportionately to the increased mileage and better and larger size buses provided in the scheme.

P 4. The Chief Electrical Engineer has also drawn in consultation with the Government Architect a new route system which is shown in drawing No.T.B.3 enclosed herein. He has also examined the routes of the present buses in detail, and the possible traffic is also taken into consideration. From the drawing it will be seen that the Chief Electrical Engineer has divided the City and Civil Station into six routes and they are so arranged that one bus goes up and down the route, the route extending from one terminus to the other. Loops have been provided at the two ends of each route for the buses to go round and cover a wider area at the terminus and turn round for the return journey. He feels that these six routes would be ample for the present and with the experience gained after a year or two the number of routes may be proportionately increased to meet the increasing demands. On the basis of this data, number the Chief Electrical Engineer feels that a minimum/of 30 buses is necessary. The petrol buses, as now handled by the Bangalore Transport Company, cover a distance of about 80 to 100 miles per day. With the improved facilities made available by providing electric buses with better acceleration, smoother running and less need of attention compared with petrol buses, it will be possible to run a minimum of 150 miles per day per bus during the working hours which can be gradually increased to 200 miles without much difficulty and strain on the equipment. The capital and working expenses can be proportionately reduced per mile if each bus runs a larger number of miles; and it is quite possible with the electrical equipment. The Chief Electrical Engineer proposes to place 30 buses in operation, 29 to be continuously running and one to be a spare bus at the sheds to replace in emergencies any defective one that may be attended to meanwhile. These 29 buses at the rate of 150 miles per day will cover a distance of 4,350 miles per day and when they make

G

two hundred miles a day the total bus miles covered will be 5,800 per day.

5. It is also stated that the drawing of the proposed routes was sent to one of the reputed manufacturers who are familiar with such undertakings and they are of the opinion that 12 rectifier sub-stations may be located as shown in the drawings.

6. The Chief Electrical Engineer further states that the Electrical Department can undertake to supply either A.C. or D.C. power whichever is desired by the organization to which the maintenance and operation of the trolley buses system is to be entrusted.

7. The cost of <sup>the</sup> buses along with other equipments like rectifier sub-stations, under-ground cables, tracks etc., would involve an estimated cost of Rs.48,84,000. The annual revenue expected is about Rs.24.85 lakhs taking into consideration the average mileage of 200 miles per day per bus and Rs.18.70 lakhs for 150 miles per day per bus. The total working expenses is estimated to be Rs.8.89 lakhs and Rs.8.09 lakhs considering 200 miles daily and 150 miles daily respectively if A.C. power is supplied; and if it is D.C. supply the estimated cost is Rs.9.47 lakhs and Rs.8.41 lakhs for 200 miles and 150 miles respectively. The percentage return on the capital of Rs.48.84 lakhs if A.C. power is supplied is 33 per cent on the capital for 200 miles daily performance per bus, and the percentage return on capital of Rs.40.5 lakhs, if D.C. power is supplied, is 38 per cent for 200 miles daily performance per bus and 25 per cent for 150 miles daily performance per bus.

The scheme is reported to be financially a remunerative one and will also provide an up-to-date modern method of transport for the premier City and Civil Station of Bangalore in the Mysore State.

The scheme of introduction of electric trolley buses in Bangalore City and Civil Station was considered under the post-war schemes relating to the Electrical Department. In the decision arrived at in the Council, it is stated that the initial construction should be by Government and the question of management of the services may be considered and decided later on.

When

When the file was placed before the Council at its meeting held on 30th October 1948, it was resolved as hereunder:-

Q "Administrative sanction is accorded for the scheme of the introduction of Electric Trolley Buses in Bangalore City and Civil Station."

I solicit the gracious sanction of His Highness to the above resolution of the Council.

Bangalore,  
11th Nov. 1948.

K.T. Panabiyam  
MINISTER FOR LAW & LABOUR.

26

*Submitted to His Highness.*

I submit herewith for the gracious sanction of His Highness a Final Note by the Minister for Law and Labour on the proposal to accord administrative sanction for the scheme of the introduction of Electric Trolley Buses in Bangalore City and Civil Station.

*A Ramaswami Mudali*  
DEWAN.

Bangalore,  
16th November 1948.

Record of Cases submitted for the Orders of  
His Highness the Maharaja.



Subject.

Proposal to accord administrative  
sanction for the scheme of the introduc-  
tion of Electric Trolley Buses in Banga-  
lore City and Civil Station.

Order.

PN.

19/11/48.

594.

Chief Secy.

ARM  
24/11

P.N.

18  
23/11  
ema  
23/11/48

General and Revenue  
Secretariat.

WD 03994--GPB--1,006--28-9-48

## SUBJECT:—

Proposal to accord administrative sanction for the scheme of the introduction of Electric Trolley Buses in Bangalore City and Civil Station.

Circulated to Council of Ministers for perusal of His Highness' orders before/after issue of orders.

*K. S. P. Rao*  
25/11/48  
Chief Secretary to Government.

Through the Secretary to Government,  
Electrical Department.

- |                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>21571<br/>8-1-49</p> <p>3488<br/>23/11</p> <p>7101<br/>31/1/49</p> <p>3157<br/>4/1/49</p> <p>4308<br/>5/1</p> <p>3531<br/>6-1-49</p> <p>2783<br/>7-1-49</p> | <p>1. Chief Minister. <i>Recd.</i><br/>8/1/49</p> <p>2. Minister for Finance and Industries. (on <i>deputation</i>)</p> <p>3. Minister for Law and Labour. <i>24/11</i></p> <p>4. Minister for Revenue and Public Works. <i>29/11</i></p> <p>5. Home Minister. <i>31/1</i></p> <p>6. Minister for Local Self-Government. <i>31/11</i> <i>4/1/49</i></p> <p>7. Minister for Public Health and Excise.</p> <p>8. Minister for Education. <i>6/1/49</i></p> <p>9. Minister for City Municipalities and Muzrai.</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NOTE.—Contn. sheet

Secretary to Government,  
P.W. & ELE Department  
with compliments.

60-1-49.

Serial  
No.

A draft of this is put up for approval

136/11

E. Secretary

am  
29/11Inf. Comm. no 3874  
Sanctioned

Issue

11/12/48

am  
29/11

11/12

Don't  
21/12

am

21/12/48

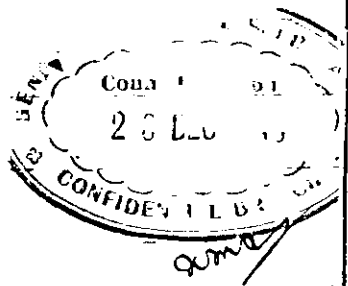
G. O NO EDS 2167-72 / Eled 136-46-29  
Dated 20<sup>th</sup> December 1948

The Chief Electrical Engineer  
 The General Secretary to Govt.  
 The Commissioner of Economic  
 Development & Planning  
 The Secretary, Traffic Board,  
 The Comptroller (Hes. FD)  
 The Auditor, Electrical Dept.

Accords administrative sanction for  
 the scheme of the introduction of electric  
 trolley buses in Bangalore City and  
 Civil Station, Bangalore

The file will now be sent to the  
 C.B. for circulation

23/12 to Supr. CB)  
 MC



TELEPHONE No. 2110  
No. 28998  
ENCLO.

TELEGRAPHIC ADDRESS:  
'GOMED'



GOVERNMENT OF MYSORE  
ELECTRICAL DEPARTMENT

OFFICE OF THE CHIEF ELECTRICAL ENGINEER,

Bangalore.. 3rd April ..... 1947.

(MYSORE, S. INDIA.)

The Secretary to the Govt. of Mysore,  
Electrical Department,  
BANGALORE.

Sir,

Subject:- Introduction of Trolley-buses in Bangalore City and Civil  
and Military Station.

With reference to your letter No. EDS-3502/Elec-136-46-4 dated the 2nd instant, on the above subject, I have the honour to invite your kind reference to this office letter No. 20862-4 dated 2nd February 1946, wherein the project estimate and report for the Trolley Bus Scheme under consideration were forwarded to you. From the information available with the department at present, only a project estimate could be prepared. Detailed estimates are to be prepared after necessary tenders for the equipment are received and full details of the materials required for completely erecting the overhead gear for the various routes specified in the drawing enclosed with the project are known.

I therefore request you to kindly obtain and communicate approval of Government to my preparing the necessary specifications for the various equipment required, as per project estimate, and issue them through the Secretary, Stores Purchase Committee.

The specifications will be issued for three items of equipment, viz.,

- (1) 30 Trolley Buses.
- (2) Overhead line equipment for about 54 miles of track.
- (3) Requisite number of Rectifier sub-stations for conversion of A.C. supply to D.C.

I have the honour to be,  
Sir,  
Your most obedient servant,

Chief Electrical Engineer.

MH-CSC.

RE.  
5/4

Elcel 136-46

2

TELEPHONE No. 2110

No. 31906

ENCL.

TELEGRAPHIC ADDRESS:

'GOMED'

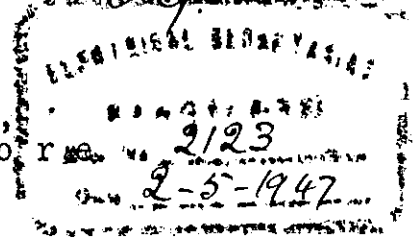
GOVERNMENT OF MYSORE  
ELECTRICAL DEPARTMENT

OFFICE OF THE CHIEF ELECTRICAL ENGINEER,

Bangalore, 18/... April 1947.

(MYSORE, S. A. H. A.)

The Secretary  
to the Govt. of Mysore,  
Electrical Department,  
Bangalore



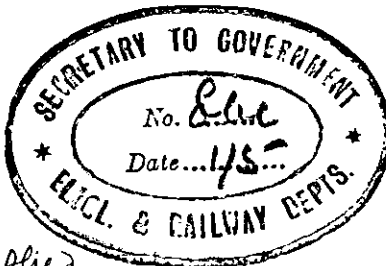
Sir,

Introduction of trolley buses in Bangalore City and C. & M. Station.

I have the honour to invite your kind reference to this office letter No. 28998 of the 5th April 1947 on the above subject and request you kindly to obtain & communicate early orders of Government thereon.

(1902)  
Sug TB

M. V. B.



I have the honor to be,

Sir,

Your most obedient servant,

*[Signature]*  
Chief Electrical Engineer

He may be replied that the matter is before Govt.

sm) EE  
T.S. 17.

A draft letter to the C. & M. S. is sent up for approval.

Issued in No. EDC 3840 of 8.5.47 to the C.E.E. Stating that the matter is before Govt.

2/5/47  
3/5/47  
S. S. 47  
29/4  
R.

CAPT. S. T. BINSTED.

TRADE COMMISSIONER FOR MYSORE,

TELEPHONE: WHITEHALL 8888

TELEGRAMS: MYSOF, RAND, LONDON



RKM/KA

PLEASE QUOTE REF. ....

(2) The Private Secretary to  
The Dewan of Mysore,  
Carlton House,  
Bangalore S. INDIA.

Dear Sir,

Kindly submit the enclosed letter from Messrs.  
Crompton Parkinson Ltd., together with booklets to the Dewan.

*Dear Sir*

*At what stage is the*

*Submittes proposed to introduce*

*22/4*

*Tralley based in Bangalore?*

Yours faithfully,

*[Signature]*

TRADE COMMISSIONER.

*35/4*

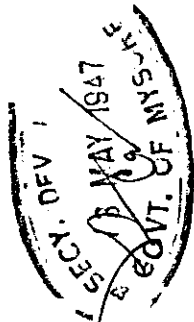
16th April 1947

DEWAN'S OFFICE

B. S-47

No. 2159

Grand Buildings,  
Trafalgar Square,  
London, W.C.2.



4



**CROMPTON PARKINSON**  
**LIMITED**  
**ELECTRICAL ENGINEERS AND MANUFACTURERS**

IN ASSOCIATION WITH: THE BRITISH ELECTRIC TRANSFORMER CO. LTD., YOUNG ACCUMULATOR CO. LTD., ELECTRICARS LTD., A. E. MORRISON & SONS LTD.

TELEPHONE: **1 2 APR 1947**  
CHELMSFORD 3161-5.

**WORKS,**  
**CHELMSFORD, ESSEX.**

TELEGRAMS:  
CROMPARK, CHELMSFORD

OUR REF. **AsTr/8/68**

PLEASE QUOTE OUR REFERENCE AND  
ADDRESS YOUR COMMUNICATIONS TO  
THE COMPANY NOT TO INDIVIDUALS

DATE **11th April 1947.**

YOUR REF. ....

Capt. S.T. Binstead,  
Trade Commissioner for Mysore,  
Grand Buildings,  
Trafalgar Square,  
LONDON. W.C.2.

Dear Sir,

We have received information from our Agents in India -

The Crompton Engineering Co. (Madras) Ltd.,  
P.O. Box No. 205,  
2nd Line Beach, MADRAS.

intimating that administrative sanction has been given to the proposals for the introduction of Trolleybuses in Bangalore (Mysore State).

They also mention that Sir A. Ramaswamy Mudaliar, Dewan of Mysore, at present in America, is expected to take the opportunity, while in London on his way back to India, to consult experts on these schemes.

As leading Contractors in the production and supply of Traction Electric Equipment, including Trolleybus Electric Equipment, we shall be pleased to know that we may have the opportunity of discussing the trolleybus question with Sir A. Ramaswamy Mudaliar, when he visits England, and that you will arrange a meeting to enable us to carry out the discussions.

We enclose, herewith, a range of Brochures giving specifications and illustrations of some of the trolleybus equipment and trust that we may be hearing from you in due course.

Yours faithfully,  
CROMPTON PARKINSON LIMITED.,

  
F.H. PEACOCK.  
TRACTION DIVISION

SUBJECT..... Introduction of Trolley buses in Bangalore  
City & Suburban Station

Section EEelFile No. 136-46

Serial No.

Diary No. of letter replied to.....

No. EDS. 3840Op. 8.5-47

General and Revenue Secretariat

( )  
 the 194 .

To.

The Chief Electrical Engineer  
Bangalore

Date of issue..... 8<sup>th</sup> May 1947

Sir,

Signed by..... Mr. R. Rameshkrishna

With reference to your letter  
 No. 31906 D/1/5/47 on the above  
 subject, I am directed to state  
 that the matter is before  
 Govt. and their orders  
 will be communicated in  
 due course.

I have etc.

List of enclosures..... Nil

Copied by.....

Am  
6/5

Examined by .....

RR 6.5.47Secretary to Govt.  
 Electrical Dept.

2/5 RM 5.5.47  
5/5/47

8

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE.

No. E.D.S. 799/Elect 136-46-11

General and Revenue Secretariat,

BY AIR MAIL. Dated Bangalore, 11th Sep. 1947.

FROM

The Secretary to the Government of

His Highness the Maharaja of Mysore.

Electrical and Railway Departments,  
Bangalore.

To Messrs The English Electric Company,

Queens House, Kingsway,

London W.C.2.

SIR,

Introduction of electric trolley buses in Bangalore.

I am directed to inform you that the Government of Mysore have, as one of the main items of their postwar works, the introduction of electric trolley buses in Bangalore City, and in the adjoining retroceded area hitherto known as the Civil and Military Station of Bangalore. As this work is of a technical nature, it is considered desirable to obtain the advice of specialists on the scheme, and as such I am to enquire as to whether this Government can have the benefit of your advice on this matter. If so, your terms for offering such consultancy advice and preparing the necessary plans, project estimate and report together with specifications for the necessary materials for enabling us to issue an enquiry for tenders as in the case of the electrification of the Bangalore-Mysore Railway, may kindly be intimated.

Taking advantage of the presence in Mysore of your representative, Mr. A. S. Robertson, the subject has been discussed with him and all available particulars of traffic density, the routes on which the electric trolley buses are proposed to be run etc., have been furnished to him.

Yours faithfully,

Sd: R. Ramakrishna

Secretary to Government,  
Electrical and Railway Departments

9  
Memo No. G.D.S. 800/Eleel 136-46-11

Df. 12-9-1947

Copy of the foregoing is forwarded with compliments to the Trade Commissioner for Mysore in London, Trafalgar Square, London W.C.2., for information.

Sd: R. Ramakrishna

Bangalore,  
11th September 1947.

Secretary to Government,  
Electrical and Railway Departments.

Memo No. G.D.S. 801/Eleel 136-46-11 dated 12<sup>th</sup> Sept 1947.

Copies of the above are forwarded to Mr. A. S. Robertson, Representative, The English Electric Company, Camp Bangalore, for information.

Bangalore,  
11th September 1947.

RL. 12/9/47  
Secretary to Government,  
Electrical and Railway Departments.



|                                                                                                                                    |                                      |                                     |                                 |                                       |                                       |
|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------|---------------------------------|---------------------------------------|---------------------------------------|
| WORKS                                                                                                                              | SIEMENS WORKS.<br>STAFFORD           | DICK, KERR WORKS.<br>PRESTON        | WILLANS WORKS.<br>RUGBY         | PHOENIX WORKS.<br>BRADFORD            | EAST LANCASHIRE ROAD,<br>LIVERPOOL    |
| TELEPHONE<br>GRAMS                                                                                                                 | STAFFORD 720<br>ENELECTICO, STAFFORD | PRESTON 5231<br>ENELECTICO, PRESTON | RUGBY 2211<br>ENELECTICO, RUGBY | BRADFORD 9240<br>ENELECTICO, BRADFORD | AINTREE 1361<br>ENELECTICO, LIVERPOOL |
| REGISTERED OFFICE: QUEEN'S HOUSE, KINGSWAY, LONDON, W.C.2. TELEPHONE: HOLBORN 6966. TELEX: (TELEPRINTER SERVICE ONLY) HOLBORN 4486 |                                      |                                     |                                 |                                       |                                       |

10



# THE ENGLISH ELECTRIC COMPANY LIMITED.

ALL COMMUNICATIONS TO BE ADDRESSED  
TO THE COMPANY, NOT TO INDIVIDUALS.

STAFFORD.

Secretary to the Government of  
His Highness the Maharaja of Mysore,  
Electrical and Railway Department,  
Bangalore.  
SOUTH INDIA

CABLES: "ENELECTICO, STAFFORD"  
CODES: BENTLEYS, A.B.C. 6TH EDITION.

OUR REFERENCE SP

YOUR REFERENCE EDS/799. Elec1: 136-46-1

9th October 1947

## INTRODUCTION OF ELECTRIC TROLLEYBUSES IN BANGALORE.

S)

We thank you for your letter of September 11th, and are very grateful for the opportunity you have suggested for us to assist you in your project for the introduction of electric trolleybuses in Bangalore.

We have discussed this with Mr. A.S. Robertson who has now returned from Mysore where he studied the electrification of your railway, and he confirms that he has all the necessary particulars of traffic density and routes on which trolleybuses are proposed to run.

We shall have much pleasure in submitting an offer to you for this work with our recommendations and specifications, and we do not propose to make any charge to you for this service in view of the fact that we are already carrying out similar work in connection with the proposed railway electrification.

Mr. Robertson is now working on both these projects, and we expect to be able to present these to you before the end of the year.

Yours faithfully,  
For THE ENGLISH ELECTRIC COMPANY LIMITED

*S. Potter*

VM

R.R.

16X-117



|                                                                                                                                    |                                      |                                     |                                 |                                       |                                       |
|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------|---------------------------------|---------------------------------------|---------------------------------------|
| WORKS                                                                                                                              | SIEMENS WORKS<br>STAFFORD            | DICK, KERR WORKS.<br>PRESTON        | WILLANS WORKS.<br>RUGBY         | PHOENIX WORKS.<br>BRADFORD            | EAST LANCASHIRE ROAD,<br>LIVERPOOL    |
| TELEPHONE<br>TELEGRAMS                                                                                                             | STAFFORD 700<br>ENELECTICO. STAFFORD | PRESTON 5231<br>ENELECTICO. PRESTON | RUGBY 2211<br>ENELECTICO. RUGBY | BRADFORD 8260<br>ENELECTICO. BRADFORD | AINTREE 1381<br>ENELECTICO. LIVERPOOL |
| REGISTERED OFFICE: QUEENS HOUSE, KINGSWAY, LONDON, W.C. 2. TELEPHONE: HOLBORN 6966. TELEX: (TELEPRINTER SERVICE ONLY) HOLBORN 4486 |                                      |                                     |                                 |                                       |                                       |



# THE ENGLISH ELECTRIC COMPANY LIMITED

ALL COMMUNICATIONS TO BE ADDRESSED  
TO THE COMPANY, NOT TO INDIVIDUALS

STAFFORD: *De 10/10/47*

CABLES: "ENELECTICO" STAFFORD.  
CODES: BENTLEY'S, 1st EDITION.

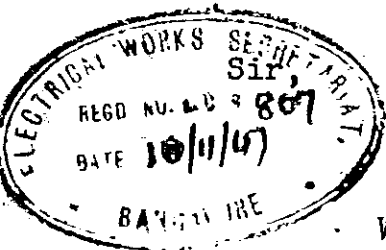
OUR REFERENCE

SP

YOUR REFERENCE

EDS/799. Elec1: 136-46-11

9th October 1947



## INTRODUCTION OF ELECTRIC TROLLEYBUSES IN BANGALORE.

We thank you for your letter of September 11th, and are very grateful for the opportunity you have suggested for us to assist you in your project for the introduction of electric trolleybuses in Bangalore.

We have discussed this with Mr. A.S. Robertson who has now returned from Mysore where he studied the electrification of your railway, and he confirms that he has all the necessary particulars of traffic density and routes on which trolleybuses are proposed to run.

We shall have much pleasure in submitting an offer to you for this work with our recommendations and specifications, and we do not propose to make any charge to you for this service in view of the fact that we are already carrying out similar work in connection with the proposed railway electrification.

Mr. Robertson is now working on both these projects, and we expect to be able to present these to you before the end of the year.

Yours faithfully,  
For THE ENGLISH ELECTRIC COMPANY LIMITED

*I. P. Koller*

VM

Submitted

*The main file bearing S no 689 has been submitted to the Minister of Railways on 3rd October 1947. This seems to be only a sea mail copy of the main file.*

*Seen Koller 10/10/47*

AIR MAIL

8led 136-46-16

|                                                                                                                                   |                                      |                                     |                                 |                                       |                                       |
|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------|---------------------------------|---------------------------------------|---------------------------------------|
| WORKS                                                                                                                             | SIEMENS WORKS<br>STAFFORD            | DICK, KERR WORKS.<br>PRESTON        | WILLIAMS WORKS.<br>RUGBY        | PHOENIX WORKS.<br>BRADFORD            | EAST LANCASHIRE ROAD.<br>LIVERPOOL    |
| TELEPHONE<br>GRAMS                                                                                                                | STAFFORD 700<br>ENELECTICO, STAFFORD | PRESTON 5231<br>ENELECTICO, PRESTON | RUGBY 2211<br>ENELECTICO, RUGBY | BRADFORD 9250<br>ENELECTICO, BRADFORD | AINTREE 1361<br>ENELECTICO, LIVERPOOL |
| REGISTERED OFFICE: QUEENS HOUSE, KINGSWAY, LONDON, W.C.2. TELEPHONE: HOLBORN 6956. TELEX: TELEPRINTER SERVICE (ONLY) HOLBORN 4486 |                                      |                                     |                                 |                                       |                                       |

# THE ENGLISH ELECTRIC COMPANY LIMITED.

ALL COMMUNICATIONS TO BE ADDRESSED  
TO THE COMPANY, NOT TO INDIVIDUALS

STAFFORD.

Secretary to the Government,  
Electrical Department,  
Public Offices,  
BANGALORE,  
South India.

CABLES: "ENELECTICO, STAFFORD".  
CODES: BENTLEYS, ABC 6TH EDITION

OUR REFERENCE P684  
6V0644/ASR  
YOUR REFERENCE

18th February, 1948.

Dear Sir,

## TROLLEYBUSES IN BANGALORE

Further to your letter No. EDS799/Elect. 136-46 dated 11th September we should be glad if you would let us have the following additional information.

From the details we have available we estimate that the shortcircuit MVA at the 4.4 kV busbars with 2 step down transformers and the 10,000 KW frequency changer in circuit will be about 180 MVA of which the frequency changer would account for about 80 MVA. This would necessitate very expensive switchgear throughout the trolleybus substation system.

If there is no intention of driving the frequency changer from its 50 cycle end the problem does not present any difficulty but if this is intended we would like to know the short circuit MVA which the 50~ machine is capable of delivering to a fault on the 4.4 kV busbars at Bangalore. This could be calculated from the machine transient reactance and the impedance of transformers or overhead lines between the machine and the Bangalore 4.4 kV busbars.

We would like to know also what you consider to be the maximum MVA fault on 4.4 kV system bearing in mind that the trolleybus substations will not be direct on the main busbars but the currents will be reduced to some extent by the impedance of the 4.4 kV lines. Will this impedance be appreciable?

Yours faithfully,  
for THE ENGLISH ELECTRIC CO. LIMITED,

*as Robert*

TRACTION DEPARTMENT : BRADFORD.

BA:

Immediate.

13

Appendix F. G.—1]

SUBJECT Introduction of Trolley-buses in  
Bangalore

Section Elect  
File No. 136-46  
Serial No. 17

Diary No. of letter replied to.....

No. EDS 2870/8led

General and Revenue Secretariat

To,

The Chief Electrical Engineer,  
Bangalore

( )  
the 194 .

Date of issue 25/3/48

Sir,

Signed by M. B. S. Narasimha Rao

In continuation of this  
office letter No. EDS. 614/8led.  
136-46-9 of 22/8/47 on the  
above subject, I am directed  
to forward herewith a copy  
of letter No. 9069 dated the  
18th February 1948 received  
from the English Electric  
Co. Ltd. in the matter and  
to request you kindly  
to furnish the information  
required by the firm to this  
Office at an early date.

List of enclosures.....

Copied by.....

Am  
11/3/48

Examined by.....

Shave etc.

BSC  
3/3/48  
Slm. S. S. S. S. S.

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE

No. EDS 2870  
Eled 136-46-17  
(Copy of the letter  
From enclosed)

*Immediate*

General and Revenue Secretariat

Bangalore, Dated, 14 March 1948

*The Secretary to the Government of His Highness  
the Maharaja of Mysore.*

To

Electrical Department, Bangalore.

The Chief Electrical Engineer  
to the Government of Mysore,  
Bangalore.

Subject:- Introduction of Trolley-buses  
in Bangalore.  
-----

S i r,

In continuation of this office letter No.EDS.614/  
Eled.136-46-9 dated 22nd August 1947 on the above  
subject, I am directed to forward herewith a copy of  
letter No.9069 dated the 18th February 1948 received  
from the English Electric Co., Ltd., in the matter and  
to request you kindly to furnish the information required  
by the firm to this office at an early date.

I have the honour to be,

S i r,

Your most obedient servant,

*g.c.*  
*100/43/48*  
Secretary to Government,  
Electrical Department.

A.N.3rd

Letter No. 9069 dated the 18th February 1948 from Messrs. The English Electric Co., Ltd., Queens House, Kingsway, London, W.C.2 to the Secretary to Government, Electrical Department, Bangalore.

TROLLEYBUSES IN BANGALORE.

Further to your letter No. EDS. 799/Elec. 136-46 dated 11th September we should be glad if you would let us have the following additional information.

From the details we have available we estimate that the shortcircuit MVA at the 4.4 KV busbars with 2 step down transformers and the 10,000 KW frequency changer in circuit will be about 180 MVA of which the frequency changer would account for about 80 MVA. This would necessitate very expensive switchgear throughout the trolleybus substation system.

If there is no intention of driving the frequency changer from its 50 cycle <sup>and</sup> ~~and~~ the problem does not present any difficulty but if this is intended we would like to know the short circuit MVA which the 50-machine is capable of delivering to a fault on the 4.4 KV busbars at Bangalore. This could be calculated from the machine transient reactance and the <sup>impedance</sup> ~~impedance~~ of transformers or overhead lines between the machine and the Bangalore 4.4 KV busbars.

We would like to know also what you consider to be the maximum MVA fault on 4.4 KV system bearing in mind that the trolleybus substations will not be direct on the main busbars but the currents will be reduced to some extent by the impedance of the 4.4 KV lines. Will this impedance be appreciable?

-----  
" COPY "

For *gpc.*   
Secretary to Government,  
Electrical Department.

A.N.3rd.

Appendix F. G.—1]

SUBJECT.....

*Introduction of Trolley-buses in  
Bangalore*

Diary No. of letter replied to.....

Section *Shol - 11*File No. *136-46*Serial No. *18**2 drafts*No. *682872/*

General and Revenue Secretariat

To.

( )  
the 194 .*Messrs. The English Electric  
Co. Ltd.,  
Queens House, Kingsway,  
London, W.C.2.*Date of issue.....*5/83/48*.....*Dear Sir,*Signed by *Mr. B. S. Narasinga Rao.**I am desirous to acknowledge  
the receipt of your letter No.  
9069 of 18/2/48 on the above  
subject and to re-assure that  
the information required  
is being obtained and  
by you will be furnished  
in due course  
~~as soon as possible~~.*

List of enclosures.....

*yours faithfully,*

Copied by.....

*May 3/48*

Examined by.....

*2/3*

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE

No. EDS 2870  
Elect 136-46-18

General and Revenue Secretariat

Bangalore, Dated, <sup>17</sup> 4<sup>th</sup> March 1948

From

*The Secretary to the Government of His Highness  
the Maharaja of Mysore.*

To

Electrical Department, Bangalore.

Messrs. The English Electric Co., Ltd.,  
Queens House, Kingsway,  
London, W.C.2.

Subject:- Introduction of Trolley buses  
in Bangalore.  
-----

Dear Sir,

I am desired to acknowledge the receipt of  
your letter No.9069 dated 18th February 1948 on the  
above subject and to state that the information  
required by you is being obtained and will be furnished  
in due course.

Yours faithfully,

GC  
PWC / a.s.s.  
Secretary to Government,  
Electrical Department.

A.N.3rd.



AIR MAIL

Elec 136-46-19

|                                                                                                                                   |                                      |                                     |                                 |                                       |                                       |
|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------|---------------------------------|---------------------------------------|---------------------------------------|
| WORKS                                                                                                                             | SIEMENS WORKS.<br>STAFFORD           | DICK, KERR WORKS.<br>PRESTON        | WILLANS WORKS.<br>RUGBY         | PHOENIX WORKS.<br>BRADFORD            | EAST LANCASHIRE ROAD,<br>LIVERPOOL    |
| TELEPHONE<br>GRAMS                                                                                                                | STAFFORD 700<br>ENELECTICO, STAFFORD | PRESTON 5231<br>ENELECTICO, PRESTON | RUGBY 2211<br>ENELECTICO, RUGBY | BRADFORD 9260<br>ENELECTICO, BRADFORD | AINTREE 1361<br>ENELECTICO, LIVERPOOL |
| REGISTERED OFFICE: QUEENS HOUSE, KINGSWAY, LONDON. W.C.2. TELEPHONE: HOLBORN 6966. TELEX: (TELEPRINTER SERVICE ONLY) HOLBORN 4486 |                                      |                                     |                                 |                                       |                                       |



# THE ENGLISH ELECTRIC COMPANY LIMITED.

ALL COMMUNICATIONS TO BE ADDRESSED  
TO THE COMPANY, NOT TO INDIVIDUALS

STAFFORD.

The Secretary to the Government  
of His Highness the Maharaja of Mysore,  
Electrical Department,  
General Secretariat,  
BANGALORE,  
South India.

CABLES: "ENELECTICO, STAFFORD"  
CODES: BENTLEY'S A.B.C. 8TH EDITION

OUR REFERENCE P684/ASR  
YOUR REFERENCE

26th February 1948.

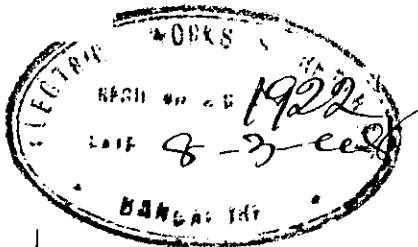
Dear Sir,

## TROLLEYBUSES FOR BANGALORE.

In connection with the report which we are preparing  
covering the above we should be glad if you would let us have  
by return airmail a copy of any regulations applicable to  
vehicles in Mysore State.

Yours faithfully,

for THE ENGLISH ELECTRIC CO. LIMITED,

TRACTION PROJECTS DEPT : BRADFORD.

Mr BD  
12  
6/79  
BA:

SUBJECT.....

*Electric Lorry Buses for Bangalore*

Diary No. of letter replied to.....

General and Revenue Secretariat

the 19 .

Date of issue.....

*12/3/48*Signed by *Mr. H. R. C.*

List of enclosures .....

Copied by *11/3*

Examined by.....

Section *Edel*File No. *136-46*Serial No. *20**Verdict*  
No. *ED 2994/Enc Enclosures*

To

*Mr. CEE*

By-

*In continuation of this office letter**no. EDS 2870/Sec 136-46-17**dated the 5<sup>th</sup> March 1948 on the**above subject and to forward herewith**a copy of letter dated 26-2-48 from the**Engine Electric Company Ltd. for**requesting for copies of regulations applicable**applicable to vehicles in Mysore**and to request you kindly to forward**the same very early particulars called**for in the letters to enable this**office to transmit them to the*

from with one week delay

Thursday

for 10-3:48

for five days

~~to~~

21

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE.

No. EDS 2994/Elect 136-46-20  
(Copy of the letter from English  
Electric Co. Ltd.)

General and Revenue Secretariat,  
Dated Bangalore, 12<sup>th</sup> March 1948.

FROM

Urgent

The Secretary to the Government of  
His Highness the Maharaja of Mysore.

Electrical Department, Bangalore.

TO

The Chief Electrical Engineer  
to the Government of Mysore,  
Bangalore.

SIR,

Subject:- Electric Trolley Buses for Bangalore.  
-----

In continuation of this office letter No.EDS.2870/Elect/36-46-17 dated the 5th March 1948 on the above subject and to forward herewith a copy of letter dated 26th February 1948 from the English Electric Co., Ltd. requesting for copies of regulation applicable to vehicles in Mysore and to request you kindly to furnish very early particulars called for in the letters to enable this office to transmit them to the firm without much delay.

I have the honour to be,  
Sir,  
Your most obedient servant,

A.N.11th

KRC 12.3.48  
Jw *ofc*  
Secretary to Government,  
Electrical Department.

*JP*

22

Letter No.P684/ASR dated the 26th February 1948 from the  
English Electric Co., Ltd., Queens House, Kingsway, London, W.C.2  
to the Secretary to Government, Electrical Department, Bangalore.

-----

TROLLEYBUSES FOR BANGALORE.

In connection with the report which we are preparing covering  
the above we should be glad if you would let us have by return airmail  
a copy of any regulations applicable to vehicles in Mysore State.

-----

" C o p y "

7<sup>th</sup> / 2 / 48  
Secretary to Government,  
Electrical Department.

A.N.11th

*[Handwritten signature]*

SUBJECT.....

Trolleybuses for Bangalore

Section

Elect

File No.

136-46

Serial No.

21

Diary No. of letter replied to.....

No. E 3058

General and Revenue Secretariat

the

19

To

Messrs. The English Electric Co.,  
Ltd,  
Ouelus House, Kingsway,  
London, W.C.2.

Date of issue...18/3/48

Dear Sir,

Signed by Mr. B. S. Ramaswami Rao

I am desired to  
acknowledge the receipt of  
your letter No. 9210 dated the  
26th February 1948 on the  
above subject, and to state  
that the information required  
by you is being obtained  
and will be furnished in  
due course.

List of enclosures .....

Copied by

19/3

Examined by.....

Yours faithfully,

13.3.48

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE.

24

General and Revenue Secretariat,

No. EA 3058  
Elec 136-46-21

Dated, Bangalore <sup>15</sup> 18 March 1948.

FROM

*The Secretary to the Government of His Highness  
the Maharaja of Mysore.*

To **Electrical Department, Bangalore.**

**Messrs. The English Electric Co., Ltd.,  
Queens House, Kingsway,  
L O N D O N, W.C.2**

Sir,

Subject:- Trolley Buses for Bangalore.  
-----

Dear Sir,

I am desirous to acknowledge the receipt of your letter No.9210 dated the 26th February 1948 on the above subject, and to state that the information required by you is being obtained and will be furnished to you in due course.

Yours faithfully,

-J C

13/4/48

Secretary to Government,  
Electrical Department.

A.N.15th

TELEPHONE No. 2110.

GOVERNMENT OF MYSORE  
ELECTRICAL DEPARTMENT

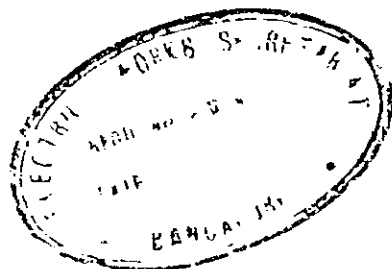
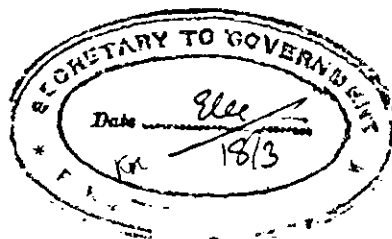


TELEGRAPHIC ADDRESS:  
"GOMED"

CODES USED  
BENTLEY'S LIEBER'S  
A. B. C. 6TH EDITION  
BUSINESS TELEGRAPH CODE.

OFFICE OF THE CHIEF ELECTRICAL ENGINEER

Bangalore, 17th March 1948  
(MYSORE, S. INDIA)



The Inspector-General of Police in Mysore,  
BANGALORE.

Sir,

Subject:- Electric Trolley Buses for Bangalore.

In forwarding herewith a copy of letter dated 26th February 1948 from the English Electric Co., Ltd., London, requesting for a copy of any regulations applicable to vehicles in Mysore State, I have the honour to state that it is presumed that the regulations referred to is of a general character, regarding the traffic, etc. I would therefore request that you may kindly reply in this matter to the Secretary, Electrical Department, Bangalore.

Very early action may kindly be taken in the matter, as the information has to be sent by Airmail.

I have the honour to be,  
Sir,  
Your most obedient servant,  
Sd/- B. N. Das,

BMD-CSC.

Offg. Chief Electrical Engr.

Copy forwarded with compliments to the Secretary to the Government of Mysore, Electrical Department, Bangalore, for information, with reference to his letter No. EDS.2994/Elcl. 136-46-20 dated the 12th instant.

Further communication will be awaited.

Offg. Chief Electrical Engineer.

nr  
23.3.48

22/3

sent

75/137  
23.3.48

22/3  
23.3.48

31/7

nr  
23.3.48

REGISTERED OFFICE:  
QUEENS HOUSE,  
KINGSWAY, LONDON, W.C.2.

| WORKS              | SIEMENS WORKS,<br>STAFFORD             | DICK, KERR WORKS,<br>PRESTON          | WILLANS WORKS,<br>RUGBY           | PHOENIX WORKS,<br>BRADFORD              |
|--------------------|----------------------------------------|---------------------------------------|-----------------------------------|-----------------------------------------|
| TELEPHONE<br>GRAMS | 700 STAFFORD,<br>ENELECTICO, STAFFORD. | 5231 PRESTON,<br>ENELECTICO, PRESTON. | 2211 RUGBY,<br>ENELECTICO, RUGBY. | 9260 BRADFORD,<br>ENELECTICO, BRADFORD. |



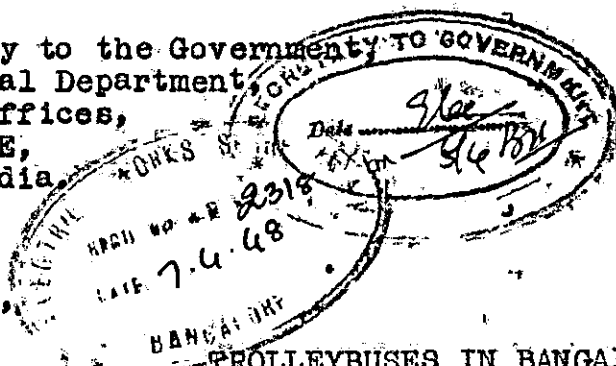
# THE ENGLISH ELECTRIC COMPANY LIMITED.

ALL COMMUNICATIONS TO BE ADDRESSED  
TO THE COMPANY, NOT TO INDIVIDUALS.

STAFFORD.

CABLES: "ENELECTICO, STAFFORD"  
CODES: BENTLEYS, A.B.C. 5TH EDITION.

Secretary to the Government  
Electrical Department  
Public Offices,  
BANGALORE,  
South India.



OUR REFERENCE P684  
670614/ASR  
YOUR REFERENCE

18th February 1948.

Dear Sir,

## TROLLEYBUSES IN BANGALORE

Further to your letter No. EDS799/Elect. 136-46 dated 11th September we should be glad if you would let us have the following additional information.

From the details we have available we estimate that the shortcircuit MVA at the 4.4 KV busbars with 2 step down transformers and the 10,000 KW frequency changer in circuit will be about 180 MVA of which the frequency changer would account for about 80 MVA. This would necessitate very expensive switchgear throughout the trolleybus substation system.

If there is no intention of driving the frequency changer from its 50 cycle end the problem does not present any difficulty but if this is intended we would like to know the short circuit MVA which the 50~ machine is capable of delivering to a fault on the 4.4 KV busbars at Bangalore. This could be calculated from the machine transient reactance and the impedance of transformers or overhead lines between the machine and the Bangalore 4.4 KV busbars.

We would like to know also what you consider to be the maximum MVA fault on 4.4 KV system bearing in mind that the trolleybus substations will not be direct on the main busbars but the currents will be reduced to some extent by the impedance of the 4.4 KV lines. Will this impedance be appreciable?

Yours faithfully,  
for THE ENGLISH ELECTRIC CO. LIMITED,

*A. H. Roberts*

TRACTION DEPARTMENT : BRADFORD.

BA:

REGISTERED OFFICE:  
QUEENS HOUSE,  
KINGSWAY, LONDON, W.C.2

|                    |                                        |                                       |                                   |                                         |
|--------------------|----------------------------------------|---------------------------------------|-----------------------------------|-----------------------------------------|
| WORKS              | SIEMENS WORKS,<br>STAFFORD             | DICK, KERR WORKS,<br>PRESTON          | WILLANS WORKS,<br>RUGBY           | PHOENIX WORKS,<br>BRADFORD              |
| TELEPHONE<br>GRAMS | 700 STAFFORD;<br>ENELECTICO, STAFFORD. | 6231 PRESTON;<br>ENELECTICO, PRESTON. | 2211 RUGBY;<br>ENELECTICO, RUGBY. | 9260 BRADFORD;<br>ENELECTICO, BRADFORD. |



# THE ENGLISH ELECTRIC COMPANY LIMITED.

ALL COMMUNICATIONS TO BE ADDRESSED  
TO THE COMPANY, NOT TO INDIVIDUALS.

STAFFORD. 27

CABLES: "ENELECTICO, STAFFORD"  
CODES: BENTLEYS, A.B.C. 6TH EDITION.

The Secretary to the Government  
of His Highness the Maharaja of Mysore,  
Electrical Department,  
General Secretariat,  
BANGALORE,  
South India.

OUR REFERENCE P684/ASR  
YOUR REFERENCE

26th February 1948.

Dear Sir,

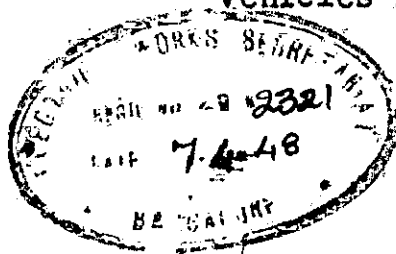
## TROLLEYBUSES FOR BANGALORE.

In connection with the report which we are preparing  
covering the above we should be glad if you would let us have  
by return airmail a copy of any regulations applicable to  
vehicles in Mysore State.

Yours faithfully,

for THE ENGLISH ELECTRIC CO. LIMITED,

TRACTION PROJECTS DEPT : BRADFORD.



Mr. G.D.  
As  
BA: 1541

The reply from the BES is awaited.  
The CEE may be reminded  
on the 15th April 48

RRC  
9.7.48

Issued a Reminder to the CEE in 80000  
3666/Black of 5.5.48. Reminds him to  
furnish the required information to the  
English Electric Works.

W. J. G. to W. J. G.  
on 23/4/48  
W. J. G.  
15/4/48

192

bled 136-46-22

TELEPHONE No. 2110.

GOVERNMENT OF MYSORE  
ELECTRICAL DEPARTMENT

28

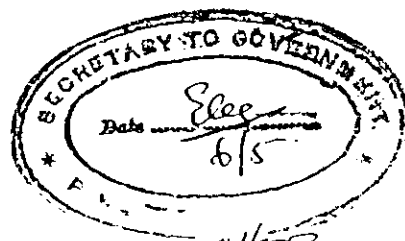
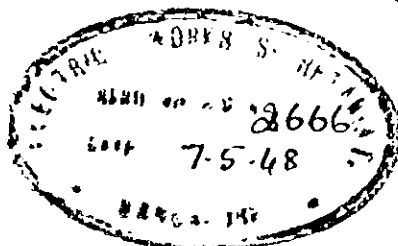


TELEGRAPHIC ADDRESS:  
"GOMED"

CODES USED  
BENTLEY'S LIEBER'S  
A. B. C. 6TH EDITION  
BUSINESS TELEGRAPH CODE.

OFFICE OF THE CHIEF ELECTRICAL ENGINEER

Bangalore, *S/K* **MAY** 1948.  
(MYSORE, S. INDIA.)



The Secretary to Government,  
Electrical Department,  
B a n g a l o r e.

*H. S. S. S.*  
6/5/48

Sir,

SUBJECT:- INTRODUCTION OF TROLLEY BUSES  
IN BANGALORE.

With reference to your letter No.E.D.S.2870/Electl.  
136-46-17 dated 4th March 1948 on the above subject,  
forwarding a copy of the letter received from M/s.The  
English Electric Co., Ltd., I have the honour to in-  
form you that during my recent visit to London, I had  
a discussion with the Engineers of the Company in London.  
I have furnished them full information required in this  
behalf. Therefore, the firm may be replied to according-  
ly and directed to address this office if any further in-  
formation is required.

I have the honour to be,  
Sir,  
Your most obedient servant,

*Mr. S. S. S. S.*  
Chief Electrical Engineer.

MH:KS.

*Mr. S. S. S. S.*  
6/5/48

G. R. S. App. F. G. 3.

GENERAL AND REVENUE  
SECRETARIAT.

(Continuation sheet draft form.)

3832/Elect 136-46-23

<sup>22</sup>  
Subject :- Introduction of  
Electric Trolley  
Buses in  
Bangalore

To

- Messrs. The English Electric  
Co. Ltd.

- Queens House,  
Kingsway,  
London, W.C.2.

Dear Sir,

In continuation  
of this office letter No. EDS  
3058/Elect. 136-46-21 dated  
the 18th March 1948 on  
the above subject, I  
am desired to state that  
Mr. Hayath, I.E.E. reports  
that during his recent  
visit to London, he  
had a discussion with  
the Engineers of your Company  
and has furnished to them  
full information requested  
and to request that  
by you in the way

*M*

38 32/Elecl 136-46-23

31  
18 May

8

The

Electrical Department, Bangalore.

To

Messrs. The English Electric Co., Ltd.,  
Queens House,  
Kingsway,  
London, W.C.2.

Subject:- Introduction of Electric Trolley Buses  
in Bangalore.  
-----

Dear Sir,

In continuation of this office letter No. EDS.3058/  
Elecl.136-46-21 dated the 16th March 1948 on the above  
subject, I am desired to state that Janab Hayath, Chief  
Electrical Engineer reports that during his recent visit  
to London, he had a discussion with the Engineers of your  
Company and has furnished to them full information required  
by you and to request that he may in future be addressed for  
any

32

any further information on the subject.

Yours faithfully,

of How  
1875748

Secretary to Government,  
Electrical Department.

A.N.17th

C. F. No. 45]

GOVERNMENT OF MYSORE

Tele. gram  
phone

OFFICE OF

The Inspector General of Police  
Mysore, Bangalore.

No. T.C. 327/47-48.  
Encls.

Date 28th May, 1948.

To

The Secretary,  
Electric Department, Bangalore.

Sir,

Subject:- Electric Trolley Buses for Bangalore.

with reference to letter No. 29961 dated 17-3-48 from the Chief Electrical Engineer in Mysore, Bangalore, on the above subject, I have the honour to state that the existing traffic regulations may perhaps do for the present. The type of the proposed vehicles is not ~~so~~ far different from that of ordinary buses. If the Trolley Buses are introduced, the following additions have to be made in the existing bus routes in Bangalore City and Civil Station.

BANGALORE CITY.

From Wilson Garden to the South gate of Mental Hospital.

From Majestic Theatre to Bangalore City Railway Station.

CIVIL STATION.

From Blackpalli Bus Stand to Cantonment Railway Station Via, Broadway Road.

From Ulsoor to Hindustan Aircraft Via, Domtur.

I have the honour to be,  
Sir,  
Your most obedient servant.

*[Signature]*

Inspector General of Police.

28/5

G. R. S. App. F. G. 3.

GENERAL AND REVENUE  
SECRETARIAT.

(Continuation sheet draft form.)

EDS 111 Filed 136-446-  
8-7-48 26

Subject:- Electric Trolley  
Buses for  
Bangalore

To

The Secy, Bangalore

Sir,

With reference to corres-  
pondence ending with  
your letter no. 36201 dated  
the 5th May 1948 on the  
above subject, I am  
directed to request  
you kindly to <sup>transmit</sup> ~~forward~~  
a copy of the letter, if  
any, <sup>to include</sup> ~~and~~ the nature of  
information <sup>furnished</sup> ~~provided~~ to  
the Mysore Electric Co.,  
in this regard.  
~~may kindly be placed~~  
~~for the information of~~  
~~your~~

I have etc

Yours

v. b.

Secretary to Govt.  
Electricity Dept.  
Bangalore

35  
EAS 111/Elud 136-46-26

8 July

8

The

Electrical Department, Bangalore.

To

The Chief Electrical Engineer  
to the Government of Mysore,  
B a n g a l o r e.

Subject:- Electric Trolley Buses for Bangalore.  
-----

S i r,

With reference to correspondence ending with your letter No.36201 dated the 5th May 1948 on the above subject, I am directed to request you kindly to send a copy of the letter and to intimate the nature of information furnished to the English Electric Co., in this regard.

I have the honour to be,

S i r,

Your most obedient servant,

for G C RK  
7.7.48  
Secretary to Government,  
Electrical Department.

A.N.3rd

AIR MAIL *Feb 1* | 136-46-27

REGISTERED OFFICE:  
QUEENS HOUSE,  
KINGSWAY, LONDON, W.C.2.  
TELEPHONE: HOLBORN 6966

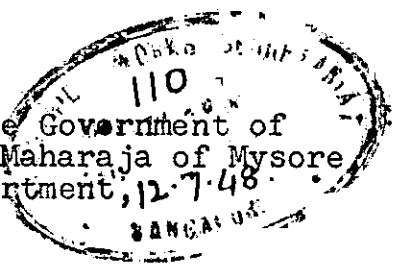
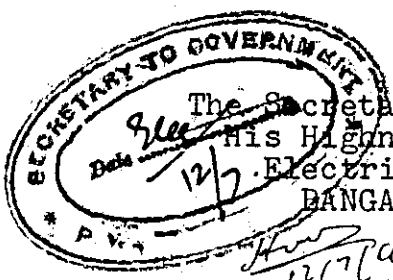
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| WORKS              | SIEMENS WORKS,<br>STAFFORD            | DICK, KERR WORKS,<br>PRESTON        | WILLANS WORKS,<br>RUGBY          | PHOENIX WORKS,<br>BRADFORD             |
| TELEPHONE<br>GRAMS | STAFFORD 700<br>ENELECTICO, STAFFORD. | PRESTON 5231<br>ENELECTICO, PRESTON | RUGBY 2211<br>ENELECTICO, RUGBY. | BRADFORD 9260<br>ENELECTICO, BRADFORD. |



# THE ENGLISH ELECTRIC COMPANY LIMITED.

ALL COMMUNICATIONS TO BE ADDRESSED  
TO THE COMPANY, NOT TO INDIVIDUALS.

STAFFORD. <sup>36</sup>



CABLES: "ENELECTICO, STAFFORD".  
CODES: BENTLEYS, A.B.C. 6TH EDITION.

OUR REFERENCE SP  
YOUR REFERENCE 3832/Elect/136-  
46-23  
3rd July, 1948

Dear Sir, <sup>12.7.48</sup>

## Introduction of Electric Trolleybuses in Bangalore.

We thank you for your letter of May 18th under the above reference, and have taken note that Janab Hayath, Chief Electrical Engineer, has reported on this subject of his recent visit to London when he had a discussion with representatives of our Company on this project.

We note it is requested that we address further communications to Mr. Hayath on this subject, and we confirm that we will arrange accordingly.

Yours faithfully,  
For THE ENGLISH ELECTRIC COMPANY LIMITED

*J. Potter*

VM

866 136-46-28.

37

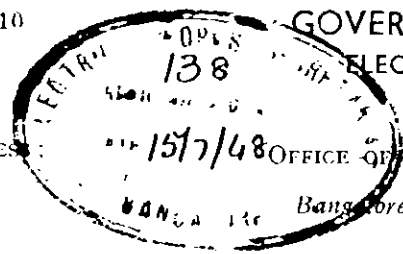
TELEPHONE No. 2110

No. 156.2

ENCLO.

TELEGRAPHIC ADDRESS:

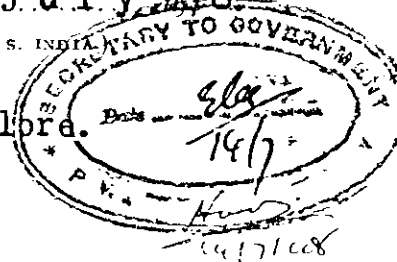
'GOMED'



GOVERNMENT OF MYSORE  
ELECTRICAL DEPARTMENT

OFFICE OF THE CHIEF ELECTRICAL ENGINEER.

10th July 1948  
(MYSORE, S. INDIA)



The Secretary to Government,  
Electrical Department, Bangalore.

S i r,

Sub:- Electric Trolley Buses for Bangalore.

With reference to your letter No.EDS.111/Electl. 136-46-26 of 8-7-48, on the above subject, I have the honour to inform you that no letter has been written ~~by me~~ <sup>by M/s.</sup> English Electric Co. I have had a general discussion with them during my visit to their Office in England and furnished them all the information, such as voltages, rupturing capacity, position of the feeders in Bangalore, etc. to enable them to send up a comprehensive scheme to Government.

I have the honor to be,  
S i r,  
Your most obedient servant,

*[Signature]*  
Chief Electrical Engineer.

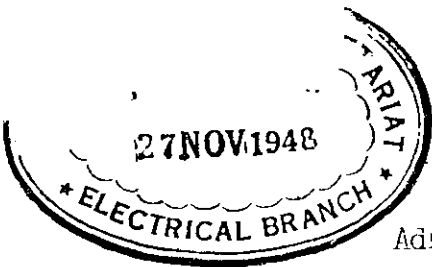
MH:MSSV.

MH:SD  
15/7/48

With the compliments of the  
Publicity Officer to the Govt. of Mysore,  
Bangalore, dated, November 25, 1948.

-:X:-

PRESS NOTE



Administrative sanction has been accorded for the scheme for the introduction of electric trolley Buses in Bangalore City and Civil Station. The cost of the buses along with other equipment like rectifier sub-stations, underground cables, tracks, etc., would be Rs.48,84,000/=. The annual revenue expected is about Rs.24.85 lakhs taking into consideration an average mileage of 200 miles per day per bus; while total working expenses are estimated to be Rs.8.89 lakhs. The return on the capital of Rs.48.84 lakhs is 33 per cent for a daily performance of 200 miles per bus.

The scheme of introduction of electric trolley buses in Bangalore City and Civil Station was one of the subjects considered under the post-war schemes relating to the Electrical Department. The initial construction will be by Government and the question of management of the services will be considered later on. Thirty buses are proposed to be placed in operation in the first instance, and these will provide a modern method of transport for the City and Civil Station.

\*\*\*\*\*

(P.N.135/25.11.48/X-3501-3600)

K.G.C.

Proceedings of the Government of His Highness the Maharaja of Mysore.

1. G.O. No. EDS 3502-3505/Elect. 136-46-4 -- dated the 2nd April 1948 directing that pending decision at a later stage on the question of the management of the services, the initial construction of the Trolley Bus in Bangalore should be by Government.

Order No. EDS 2167-72/Elect 136-46-29

Dated, Bangalore 20<sup>th</sup> Dec. '48

The question of improving the facilities for passenger traffic in the Bangalore City and Civil Station has been under the consideration of Government for some time past. The public of Bangalore City and Civil Station are not being provided, at present, with adequate transport facilities and complaints of inadequate and unsatisfactory services are increasing every day. With the growing size of the City and Civil Station it is imperative that an up-to-date efficient transport system is provided. Taking the size of the City and its possible extension for the next ten years, it is considered that the only solution ~~is~~ is to introduce Trolley Buses.

2. The Chief Electrical Engineer who was requested to forward a rough estimate for this work, has forwarded for the consideration, a rough estimate for Rs. 48.84 lakhs for the work, and has proposed to place 30 buses in operation, 29 to be continuously running and one to be a spare bus at the shed to replace in emergencies, any defective one that may be attended to meanwhile.

110

-2-

attended to meanwhile. These 29 buses at the rate of 150 miles per day ~~are~~ are expected to cover a distance of 4,350 miles per day <sup>and</sup> when they make 200 miles a day the total bus miles covered will be 5,800 per mile.

3. The scheme of introduction of electric buses in Bangalore City and Civil Station was also considered under the post-war schemes relating to the Electrical Department. -

4. After a very careful consideration of the matter Government are pleased to accord administrative sanction for the scheme of the introduction of -- electric trolley buses in Bangalore City and Civil Station.

5. The Chief Electrical Engineer is requested to forward detailed estimates and plans for the work.

*Hov*  
1.12.48  
Secretary to Government,  
Electrical Department.

To *29/11* *Om 30/11*  
The Chief Electrical Engineer  
The General Secretary to Government  
The Commissioner of Economic Development and Planning  
The Secretary, Traffic Board  
The Comptroller to Government (through the Financial Secretariat)  
The Auditor, Electrical Department.

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(1)

PROCEEDINGS OF THE GOVERNMENT OF HIS HIGHNESS  
THE MAHARAJA OF MYSORE

R e a d:-

1. G.O. No. E.D.S. 3502-3504/31eel. 136-46-4 dated the 2nd April 1948 directing that pending decision at a later stage on the question of the management of the services, the initial construction of the Trolley Bus in Bangalore should be by Government.

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ORDER NO. B.P.C. 2167-72/Eleel 136-46-29  
Dated, Bangalore, 20<sup>th</sup> December 1948.

The question of improving the facilities for passenger traffic in the Bangalore City and Civil Station has been under the consideration of Government for sometime past. The public of Bangalore City and Civil Station are not being provided, at present, with adequate transport facilities and complaints of inadequate and unsatisfactory services are increasing every day. With the growing size of the City and Civil Station it is imperative that an up-to-date efficient transport system is provided. Taking the size of the City and its possible extension for the next ten years, it is considered that the only solution is to introduce Trolley Buses.

2. The Chief Electrical Engineer who was requested to forward a rough estimate for this work, has forwarded for consideration, a rough estimate for Rs. 48.84 lakhs for the work, and has proposed to place 30 buses in operation, 29 to be continuously running and one to be a spare bus at the shed to replace in emergencies, any defective one that may be attended to meanwhile. These 29 buses at the rate of 150 miles per day are expected to cover a distance of 4,350 miles per day and when they make 200 miles a day the total bus miles covered will be 5,890 per mile.

3. The scheme of introduction of electric trolley buses in Bangalore City and Civil Station was also considered under the post-war schemes relating to the Electrical Department.

4. After a very careful consideration of the matter, Government are pleased to accord administrative sanction for the scheme of the introduction of electric trolley buses in Bangalore City and Civil Station.